## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 40cdh/229159	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	International filing date (day/month/)	year) Priority date (day/month/year)				
PCT/EP2004/000335	17.01.2004	11.03.2003				
International Patent Classification (IPC) or national classification and IPC						
Applicant HYDAC TECHNOLOGY GMBI						
This report is the international preliminary examination report, established by this International Preliminary Examining Authority						
<ul><li>under Article 35 and transmitted to th</li><li>This REPORT consists of a total of</li></ul>	_	g including this payor short				
This REPORT consists of a total of      This report is also accompanied by A		s, mending this cover sheet.				
	to the International Bureau) a total of	C - Locato as Callaria				
		f sheets, as follows: ave been amended and are the basis for this report and/or				
		ty (see Rule 70.16 and Section 607 of the Administrative				
		hority considers contain an amendment that goes beyond indicated in item 4 of Box No. I and the Supplemental				
	Bureau only) a total of (indicate type a	and number of electronic carrier(s))				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relati	ng to the following items:					
Box No. I Basis of the	report					
Box No. II Priority						
Box No. III Non-establi	shment of opinion with regard to nove	elty, inventive step and industrial applicability				
Box No. IV Lack of uni	ty of invention					
	tatement under Article 35(2) with rega d explanations supporting such statem	ard to novelty, inventive step or industrial applicability; nent				
Box No. VI Certain doc	ruments cited					
Box No. VII Certain def	ects in the international application					
Box No. VIII Certain obs	ervations on the international applicat	ion				
Date of submission of the demand	Date of comp	letion of this report				
Name and mailing address of the IPEA/EP	Authorized of	ficer				
Facsimile No	Telephone No					

Translation

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Box	No. I	Basis of the report		
1.		regard to the language, this report is based on the ated under this item.	international application in the language in which	ch it was filed, unless otherwise
2.		This report is based on translations from the origin which is the language of a translation furnished for international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule international preliminary examination (Rule regard to the elements of the international application of the international applica	Rule 12.4) 255.2 and/or 55.3) ation, this report is based on (replacement sheet	
		report): the international application as originally filed/fur the description:		
		pages 1-8		as originally filed/furnished
		pages*		
			received by this Authority on	
	M	the claims:		
		nos.*	as amended (together wi	th any statement) under Article 19
		nos.*	received by this Authority on	<del></del>
	<del></del>	nos.*	received by this Authority on	<del>.</del>
	$\boxtimes$	the drawings:		
		sheets 1/2-2/2		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	······································
		a sequence listing and/or any related table(s) - se	e Supplemental Box Relating to Sequence Listin	ng.
3.		The amendments have resulted in the cancellation	n of:	
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
			ecify):	
4.		This report has been established as if (some of) they have been considered to go beyond the discl	the amendments annexed to this report and list losure as filed, as indicated in the Supplemental	ed below had not been made, since Box (Rule 70.2(c)).
		the description, pages		
			<del></del>	
		any table(s) related to sequence listing (spe		
Ŀ	If ite	em 4 applies, some or all of those sheets may be m		

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Box	k No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	<del></del>
1.	Statement		<u> </u>		_
	Novelty (	(N)	Claims		YES
	Claims		Claims	1, 2, 9, 10	NO
	Inventive step (IS)		Claims		YES
				1-10	
	Industrial	l applicability (IA)		1-10	
			Claims		
2.	Citations and	d explanations (Rule	•		
	1	This rep	ort ma	kes reference to the following	
		document	s:		
		D1: DE	195 39	551 A (BOLENZ &; SCHAEFER; SIEMENS	
		AG	(DE))	17 April 1997 (1997-04-17)	
		D2: US	4 608	870 A (HUBER WERNER ET AL)	
		2 S	eptemb	er 1986 (1986-09-02)	
		D3: PAT	ENT AB	STRACTS OF JAPAN Vol. 1999, No. 10,	
		31	August	1999 (1999-08-31) &; JP 11 132204 A	
		(TA	IYO LT	D), 18 May 1999 (1999-05-18)	
		D4: PAT	ENT AB	STRACTS OF JAPAN Vol. 2000, No. 20,	
		10	July 2	001 (2001-07-10) &; JP 2001 082416 A	
		(TA	IYO LT	D), 27 March 2001 (2001-03-27)	
		D5: EP	0 721	067 A (BEETZ HYDRAULIK GMBH) 10 July	
		199	6 (199	6-07-10)	
	2	INDEPEND	ENT CL	AIM 1	
	2.1 The present application does not meet the		plication does not meet the		
		requirem	ents o	of PCT Article 33(1) because the	
		subject	matter	of claim 1 lacks novelty (PCT	
		Article	33(2))		
l					

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document D1 discloses (the references between parentheses refer to that document):

piston-type accumulator that comprises: an accumulator housing in the form of a cylindrical tube (1) made from magnetisable material, which defines an axial direction of the housing, a piston (6), which can be axially displaced over a stroke path in the cylindrical tube (1) and which forms a movable separating element which separates two working chambers (2, 7) within the accumulator housing, a magnet arrangement (11) which is disposed on the piston (6) and generates a field on the wall of the cylindrical tube (1), and a magnetic field sensor device which is located on the outside of the cylindrical tube (1) and comprises at least one Hall sensor (12) which is disposed on the outside of the cylindrical tube (1) and responds to the field generated by the magnet arrangement (11) on the piston (6) in order to determine the position of the piston (6) along the stroke path.

- 2.2. Document D2 (see, in particular, column 1, line 61 column 3, line 6, figure 1) also discloses a device having the features of claim 1.
- 3 DEPENDENT CLAIMS 2-10
- 3.1. Dependent claims 2-10 do not appear to contain any additional features which, in combination with the features of any claim to which they refer back,

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

meet the PCT requirements for novelty and inventive step. The reasons are as follows:

- 3.2. Regarding claims 2, 9 and 10: the subject matter of claims 2, 9 and 10 lacks novelty (PCT Article 33(2)): see document D2, in particular column 1, line 61 column 3, line 6, figure 1.
- 3.3. Regarding claims 3 8: the subject matter of
   claims 3 8 does not involve an inventive step
   (PCT Article 33(3)):
- 3.3.1. Regarding claims 3 and 8: see document D3, in particular the abstract and the drawings.
- 3.3.2. Regarding claims 4 and 5: see document D4, in particular the abstract and the drawings.
- 3.3.3.Regarding claim 6: see document D5, in particular column 4, lines 29-40, figure 1.
- 3.3.4. Regarding claim 7: dependent claim 7 concerns a minor structural modification to the device according to claim 6, of the kind that a person skilled in the art routinely makes on the basis of familiar considerations, especially since the resulting advantages are readily foreseeable.
- 3.4. Documents D3 to D5 describe the same advantages as the present application in relation to the features indicated in sections 3.3.1. to 3.3.4. A person skilled in the art would therefore regard

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	the inclusion of these features in the device
	described in D1 as a common measure for solving
	the problem of interest.
4.	INDUSTRIAL APPLICABILITY
	The subject matter of claims 1-10 can be made and
	used and is therefore considered industrially
	applicable.
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